

AMENDMENTS TO THE CLAIMS

Claim 1 (previously presented): A heat transfer element consisting essentially of a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5%-1.0 %, the heat transfer medium is positioned on a substrate.

Claim 2 (original): A heat transfer element according to claim 1, wherein the weight percentages in the heat transfer product are:

- (1) Cobaltic Oxide (Co_2O_3), 0.7-0.8 %;
- (2) Boron Oxide (B_2O_3), 1.4-1.6 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.4-1.6 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 14.0-16.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 56.0-64.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 14.0-16.0 %;
- (7) Beryllium Oxide (BeO), 0.07-0.08 %;

- (8) Titanium Diboride (TiB_2), 0.7-0.8 %;
- (9) Potassium Peroxide (K_2O_2), 0.07-0.08 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 7.0-8.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.7-0.8 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.7-0.8 %.

Claim 3 (original): A heat transfer element according to claim 1, wherein the weight percentages in the heat transfer medium product are:

- (1) Cobaltic Oxide (Co_2O_3), 0.723 %;
- (2) Boron Oxide (B_2O_3), 1.4472 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.4472 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 14.472 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 57.888 %;
- Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 14.472 %;
- Beryllium Oxide (BeO), 0.0723 %;
- (8) Titanium Diboride (TiB_2), 0.723 %;
- (9) Potassium Peroxide (K_2O_2), 0.0723 %;
- (10) (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 7.23 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.723 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.723 %.

Claim 4 (currently amended): A heat transfer element according to ~~any of claims 1 to 3~~ claim 1, wherein the heat transfer element is a heating element.

Claim 5 (currently amended): A heat transfer element according to ~~any of claims 1 to 3~~ claim 1, wherein the heat transfer element is a heat-dissipating element.

Claim 6 (currently amended): A heat transfer element according to ~~any of claims 1 to 3~~ claim 1, wherein the heat transfer element is a heat exchange element.

Claim 7 (original): A heat transfer element for use in heating of electronic or electric equipments which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5-1.0 %.

Claim 8 (original): A heat transfer element according to claim 7, wherein the heat transfer element is the heating element of a steam washing machine.

Claim 9 (original): A heat transfer element according to claim 7, wherein the heat transfer element is the heating element of a heating system of a drying machine.

Claim 10 (original): A heat transfer element according to claim 7, wherein the heat transfer element is a heating radiator.

Claim 11 (original): A heat transfer element according to claim 7, wherein the heat transfer element is the heating element of a heater.

Claim 12 (original): A heat transfer element according to claim 7, wherein the heat transfer element is the heating element of a fan oven.

Claim 13 (original): A heat transfer element for use in heating of daily necessities which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5-1.0 %.

Claim 14 (original): A heat transfer element according to claim 13, wherein the heat transfer element is the heating element of an electric water heater.

Claim 15 (original): A heat transfer element according to claim 13, wherein the heat transfer element is the heating element of a radiator.

Claim 16 (original): A heat transfer element according to claim 13, wherein the heat transfer element is the heating element of an electric heater.

Claim 17 (original): A heat transfer element according to claim 13, wherein the heat transfer element is the heating element of a kettle.

Claim 18 (original): A heat transfer element according to claim 13, wherein the heat transfer element is the heating element of a Chinese hot pot.

Claim 19 (original): A heat transfer element according to claim 13, wherein the heat transfer element is the heating element of a grill.

Claim 20 (original): A heat transfer element according to claim 13, wherein the heat transfer element is the heating element of an electric iron.

Claim 21 (original): A heat transfer element according to claim 13, wherein the heat transfer element is the heating element of a high performance dual-mode water boiler.

Claim 22 (original): A heat transfer element for use in heating of a mechanical processing apparatus which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5-1.0 %.

Claim 23 (original): A heat transfer element according to claim 22, wherein the heat transfer element is the heating element of a heat transfer rate injection molding screw rod.

Claim 24 (original): A heat transfer element for use in heat recovery systems which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;

- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5-1.0 %.

Claim 25 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate air pre-heater.

Claim 26 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate air pre-heater in a coke furnace.

Claim 27 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an integrated inorganic high heat transfer air pre-heater in a blast furnace.

Claim 28 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate horizontal blast air pre-heater in a chemical fertilizer manufacturing system.

Claim 29 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate horizontal blast air pre-heater in a chemical fertilizer manufacturing system with a steam-water separator.

Claim 30 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an inorganic high heat transfer rate up and down-route gas horizontal symmetric afterheat boiler.

Claim 31 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an inorganic high heat transfer rate up and down-route gas horizontal symmetric afterheat boiler with a steam-water separator.

Claim 32 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate vertical eccentric blast afterheat boiler in a chemical fertilizer manufacturing system.

Claim 33 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate vertical blast eccentric afterheat boiler in a chemical fertilizer manufacturing system with a steam-water separator.

Claim 34 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate symmetrical blast afterheat boiler in a chemical fertilizer manufacturing system.

Claim 35 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate vertical blast symmetrical afterheat boiler in a chemical fertilizer manufacturing system with a steam-water separator.

Claim 36 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an inorganic high heat transfer rate up and down-route gas vertical eccentric afterheat boiler.

Claim 37 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an inorganic high heat transfer rate up and down-route gas vertical eccentric afterheat boiler with a steam-water separator.

Claim 38 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an inorganic high heat transfer rate up and down-route gas vertical symmetrical afterheat boiler.

Claim 39 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an afterheat boiler in the glass kiln.

Claim 40 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate steam generator in the cement kiln.

Claim 41 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate water heating system in the cement kiln.

Claim 42 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate air dryer and heater in a ceramic kiln.

Claim 43 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an afterheat boiler in the ship.

Claim 44 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a car exhaust heater.

Claim 45 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate seawater distiller for oceangoing vessels.

Claim 46 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an inorganic high heat transfer rate up and down-route gas vertical symmetrical afterheat boiler (with steam-water separator).

Claim 47 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate horizontal afterheat boiler.

Claim 48 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate eccentric afterheat boiler.

Claim 49 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate symmetrical afterheat boiler.

Claim 50 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate electric boiler air pre-heater.

Claim 51 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate power plant boiler fuel heating system.

Claim 52 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate power plant boiler water heating system.

Claim 53 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an afterheat water heater.

Claim 54 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an air pre-heater.

Claim 55 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a dual gas heater.

Claim 56 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an afterheat boiler of the rotary kiln in magnesium plants.

Claim 57 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an afterheat boiler of the reduction furnace in magnesium plants.

Claim 58 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of the afterheat boiler of a sintering machine.

Claim 59 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of the afterheat boiler of a coupling casting machine.

Claim 60 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a heat recovery device for casting billet.

Claim 61 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a heat recovery device for oil-firing industrial furnaces.

Claim 62 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a steam generator for oil-firing industrial furnaces.

Claim 63 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a heat recovery device for gas-firing industrial furnaces.

Claim 64 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an afterheat steam generator for gas-firing industrial furnaces.

Claim 65 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an energy cycling system in a dryer.

Claim 66 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a heat recovery apparatus used in restaurants.

Claim 67 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate air pre-heater of the propane de-asphalt furnace.

Claim 68 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate air pre-heater of the molecular screen de-wax carrier furnace.

Claim 69 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate blast air pre-heater in a chemical fertilizer manufacturing system.

Claim 70 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an integrated high heat transfer air pre-heater in a platinum-resetting heater.

Claim 71 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an air pre-heater of heat transfer Arene device constant depressurizing carrier furnace.

Claim 72 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a heat recovery device on the continuous casting billet cold table of a continuous casting machine in the steel plant.

Claim 73 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an air pre-heater in a glass kiln.

Claim 74 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate air pre-heater installed on the top of a crude heater.

Claim 75 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate air pre-heater of a steam instilling boiler.

Claim 76 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate water pre-heater of a steam instilling boiler.

Claim 77 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an afterheat boiler in a heating furnace.

Claim 78 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a gas sensible heat device using a coke furnace lift pipe with an high heat transfer element.

Claim 79 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a heat transfer anti-dew-point corrosion air pre-heater.

Claim 80 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a soft water boiler.

Claim 81 (original): A heat transfer element according to claim 24, wherein the heat transfer

element is the heating element of a high heat transfer rate bridge double channel afterheat recovery device.

Claim 82 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a vortex scroll heat exchanger.

Claim 83 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate air-air/air-liquid combined heat exchanger.

Claim 84 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate afterheat processing apparatus in synthetic ammonia making technique.

Claim 85 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a sulfur trioxide heat exchanger.

Claim 86 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a total counter flow high heat transfer heat exchanger.

Claim 87 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of a high heat transfer rate heat recovery apparatus in dry coke technique.

Claim 88 (original): A heat transfer element according to claim 24, wherein the heat transfer element is the heating element of an integrated high heat transfer air pre-heater in a furfural refiner.

Claim 89 (original): A heat transfer element according to claim 24, wherein the heat transfer

element is the heating element of an integrated high heat transfer joint air pre-heater in a heating furnace with constant depressurizing device in refinery.

Claim 90 (original): A heat transfer element for use in heating of energy collecting systems which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5-1.0 %.

Claim 91 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a solar water heater.

Claim 92 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a solar hot blast tool.

Claim 93 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a solar energy collector tube.

Claim 94 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a solar energy collector in plate form.

Claim 95 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a geothermal collecting equipment.

Claim 96 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a geothermal steam boiler.

Claim 97 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a geothermal water temperature exchanger.

Claim 98 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a geothermal water-air heater.

Claim 99 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a high heat transfer rate geothermal power generating system.

Claim 100 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a high heat transfer low temperature geothermal heating system.

Claim 101 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a high heat transfer rate solar energy collecting building heating system.

Claim 102 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a high heat transfer rate solar water heater to be installed on the balcony.

Claim 103 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a high heat transfer rate plate form solar water heater.

Claim 104 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a heat transfer medium heat reservoir.

Claim 105 (original): A heat transfer element according to claim 90, wherein the heat transfer element is the heating element of a high heat transfer rate solar energy collector plate.

Claim 106 (cancelled)

Claim 107 (currently amended): A heat transfer element according to claim [[106]] 7, wherein the heat transfer element is the heating element of a high heat transfer rate electric boiler air heater.

Claim 108 (currently amended): A heat transfer element according to claim [[106]] 7, wherein the heat transfer element is the heating element of an electrothermal high heat transfer rate heating reactor.

Claim 109 (currently amended): A heat transfer element according to claim [[106]] 7, wherein the heat transfer element is the heating element of a steam high heat transfer rate heating reactor.

Claim 110 (currently amended): A heat transfer element according to claim [[106]] 7, wherein the heat transfer element is the heating element of a homogeneous temperature distribution epitaxial furnace.

Claim 111 (currently amended): A heat transfer element according to claim ~~[[106]]~~ 7, wherein the heat transfer element is the heating element of an electrothermal water heating system.

Claim 112 (currently amended): A heat transfer element according to claim ~~[[106]]~~ 7, wherein the heat transfer element is the heating element of a high heat transfer rate thermal sealer for plastic package.

Claim 113 (currently amended): A heat transfer element according to claim ~~[[106]]~~ 7, wherein the heat transfer element is the heating element of a high heat transfer rate gas-firing boiler.

Claim 114 (currently amended): A heat transfer element according to claim ~~[[106]]~~ 7, wherein the heat transfer element is the heating element of a high heat transfer rate gas-firing water heater.

Claim 115 (original): A heat transfer element for use in heating of civil engineering facilities and structures which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;

- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5-1.0 %.

Claim 116 (original): A heat transfer element according to claim 115, wherein the heat transfer element is the heating element of a pavement heating system.

Claim 117 (original): A heat transfer element according to claim 115, wherein the heat transfer element is the heating element of an airport runway heating system.

Claim 118 (original): A heat transfer element according to claim 115, wherein the heat transfer element is the heating element of a solar energy pool heating system.

Claim 119 (original): A heat transfer element according to claim 115, wherein the heat transfer element is the heating element of a cul-de-sac heater.

Claim 120 (original): A heat transfer element for use in heating of drying apparatus which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;

- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5-1.0 %.

Claim 121 (original): A heat transfer element according to claim 120, wherein the heat transfer element is the heating element of an electric dryer.

Claim 122 (original): A heat transfer element according to claim 120, wherein the heat transfer element is the heating element of an oil-firing hot air furnace.

Claim 123 (original): A heat transfer element according to claim 120, wherein the heat transfer element is the heating element of a gas-firing hot air furnace.

Claim 124 (original): A heat transfer element according to claim 120, wherein the heat transfer element is the heating element of a coal-firing hot air furnace.

Claim 125 (original): A heat transfer element according to claim 120, wherein the heat transfer element is the heating element of a paper dryer.

Claim 126 (original): A heat transfer element according to claim 120, wherein the heat transfer element is the heating element of a pencil wood drying apparatus.

Claim 127 (original): A heat transfer element according to claim 120, wherein the heat transfer element is the heating element of a timber dryer.

Claim 128 (original): A heat transfer element according to claim 120, wherein the heat transfer element is the heating element of a spraying dryer.

Claim 129 (original): A heat transfer element according to claim 120, wherein the heat transfer element is the heating element of a turret dryer.

Claim 130 (original): A heat transfer element according to claim 120, wherein the heat transfer element is the heating element of a hot blast dryer.

Claim 131 (original): A heat transfer element for use in heating of chemical engineering apparatus which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5-1.0 %.

Claim 132 (original): A heat transfer element according to claim 131, wherein the heat transfer element is the heating element of a crude oil heater.

Claim 133 (original): A heat transfer element according to claim 131, wherein the heat transfer element is the heating element of an oil reservoir heater.

Claim 134 (original): A heat transfer element according to claim 131, wherein the heat transfer element is the heating element of a crude heater of oil tank at the entrance of the oil well.

Claim 135 (original): A heat transfer element according to claim 131, wherein the heat transfer element is the heating element of a crude oil heater of onboard oil can.

Claim 136 (original): A heat transfer element according to claim 131, wherein the heat transfer element is the heating element of a vehicle oil tank heater.

Claim 137 (original): A heat transfer element according to claim 131, wherein the heat transfer element is the heating element of an inner heat exchange heater at the entrance of the oil well.

Claim 138 (original): A heat transfer element according to claim 131, wherein the heat transfer element is the heating element of electric-thermal crude oil heating apparatus.

Claim 139 (original): A heat transfer element according to claim 131, wherein the heat transfer element is the heating element of an endothermic chemical reactor.

Claim 140 (original): A heat transfer element according to claim 131, wherein the heat transfer element is the heating element of a thermostatic bathtub.

Claim 141 (original): A heat transfer element according to claim 131, wherein the heat transfer element is the heating element of a crude oil heating furnace for oil pipes.

Claim 142 (original): A heat transfer element according to claim 131, wherein the heat transfer element is the heating element of an endothermic chemical reactor vessel.

Claim 143 (original): A heat transfer element according to claim 131, wherein the heat transfer element is the heating element of a crude oil heater for heavy oil reservoirs.

Claim 144 (original): A heat transfer element for use in agriculture & fishery which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5-1.0 %.

Claim 145 (original): A heat transfer element according to claim 144, wherein the heat transfer element is the heat-dissipating element of a heat-dissipating apparatus preventing spontaneous ignition and heating.

Claim 146 (original): A heat transfer element for use in computers and peripherals which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5-1.0 %.

Claim 147 (original): A heat transfer element according to claim 146, wherein the heat transfer element is the serpentine-shape heat-dissipating element of CPU coolers for desktop computers.

Claim 148 (original): A heat transfer element according to claim 146, wherein the heat transfer element is the plate heat-dissipating element of CPU coolers for desktop computers.

Claim 149 (original): A heat transfer element according to claim 146, wherein the heat transfer element is the external heat-dissipating element of CPU coolers for desktop computers.

Claim 150 (original): A heat transfer element according to claim 146, wherein the heat transfer element is the heat-dissipating element of the plate CPU cooler of laptop computer under the keyboard.

Claim 151 (original): A heat transfer element according to claim 146, wherein the heat transfer element is the heat-dissipating element of the plate CPU cooler of laptop computer behind the LCD display.

Claim 152 (original): A heat transfer element according to claim 146, wherein the heat transfer element is the heat-dissipating element of an IC cooler.

Claim 153 (original): A heat transfer element according to claim 146, wherein the heat transfer element is the heat-dissipating element of a semiconductor cooler.

Claim 154 (original): A heat transfer element according to claim 146, wherein the heat transfer element is the heat-dissipating element of an IC carrying cooler for laptop computer CPU.

Claim 155 (original): A heat transfer element according to claim 146, wherein the heat transfer element is the heat-dissipating element of the plate CPU cooling apparatus of laptop computer in the keyboard.

Claim 156 (original): A heat transfer element according to claim 146, wherein the heat transfer element is the heat-dissipating element of a chipset-cooling device.

Claim 157 (original): A heat transfer element according to claim 146, wherein the heat transfer element is the heat-dissipating element of an EMI-reducing cooling device.

Claim 158 (cancelled)

Claim 159 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a top-mounted sealed radiator for electronic controllers.

Claim 160 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a wall-mounted sealed radiator for electronic controllers.

Claim 161 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of an embedded sealed radiator for electronic controllers.

Claim 162 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a sealed radiator for industrial displays.

Claim 163 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a sealed cooler for television sets.

Claim 164 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a silicon-controlled device radiator.

Claim 165 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a radiator for thyristers.

Claim 166 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a compressed intermediate stage cooler.

Claim 167 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a large power cooler of the silicon controlled device in an explosion-proof casing.

Claim 168 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a cooler for power modules.

Claim 169 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a radiator for storage battery.

Claim 170 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a thermoelectric cooler.

Claim 171 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a refrigerator radiator.

Claim 172 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a projector heat dissipating system.

Claim 173 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a cooling plate radiator.

Claim 174 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a scanner cooling system.

Claim 175 (currently amended): A heat transfer element according to claim [[158]] 7, wherein the heat transfer element is the heat-dissipating element of a waste heat air conditioning system.

Claim 176 (original): A heat transfer element for use in heat dissipation in medical treatment apparatus which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5-1.0 %.

Claim 177 (original): A heat transfer element according to claim 176, wherein the heat transfer element is the heat-dissipating element of an anti-dozing cold hat.

Claim 178 (original): A heat transfer element according to claim 176, wherein the heat transfer element is the heat-dissipating element of a thermoelectric cooling beauty device.

Claim 179 (cancelled)

Claim 180 (currently amended): A heat transfer element according to claim ~~[[179]]~~ 13, wherein the heat transfer element is the heat-dissipating element of a drink cooling stick.

Claim 181 (currently amended): A heat transfer element according to claim ~~[[179]]~~ 13, wherein the heat transfer element is the heat-dissipating element of a cooling cup.

Claim 182 (currently amended): A heat transfer element according to claim ~~[[179]]~~ 13, wherein the heat transfer element is the heat-dissipating element of a lamp radiator.

Claim 183 (currently amended): A heat transfer element according to claim ~~[[179]]~~ 13, wherein the heat transfer element is the heat-dissipating element of a food container.

Claim 184 (currently amended): A heat transfer element according to claim ~~[[179]]~~ 13, wherein the heat transfer element is the heat-dissipating element of a thermoelectric cooling food container.

Claim 185 (currently amended): A heat transfer element according to claim ~~[[179]]~~ 13, wherein the heat transfer element is the heat-dissipating element of a drink cooler.

Claim 186 (cancelled)

Claim 187 (currently amended): A heat transfer element according to claim ~~[[186]]~~ 22, wherein the heat transfer element is a machine center guiding track.

Claim 188 (currently amended): A heat transfer element according to claim ~~[[186]]~~ 22, wherein the heat transfer element is a machine center main pivot.

Claim 189 (currently amended): A heat transfer element according to claim ~~[[186]]~~ 22, wherein the heat transfer element is a drill.

Claim 190 (currently amended): A heat transfer element according to claim ~~[[186]]~~ 22, wherein the heat transfer element is a cutting tool.

Claim 191 (currently amended): A heat transfer element according to claim ~~[[186]]~~ 22, wherein the heat transfer element is the heating element of an injection mold.

Claim 192 (currently amended): A heat transfer element according to claim ~~[[186]]~~ 22, wherein the heat transfer element is a high-polymer extruding machine screw.

Claim 193 (currently amended): A heat transfer element according to claim ~~[[186]]~~ 22, wherein the heat transfer element is a mining drill.

Claim 194 (original): A heat transfer element for use in heat dissipation in an audio-visual equipment which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;

- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate ($SrCrO_4$), 0.5-1.0 %; and
- (12) Silver Dichromate ($Ag_2Cr_2O_7$), 0.5-1.0 %.

Claim 195 (original): A heat transfer element according to claim 194, wherein the heat transfer element is the heat-dissipating element of a sound reproducing output system.

Claim 196 (original): A heat transfer element according to claim 195, wherein the heat transfer element is the heat-dissipating element of an output system.

Claim 197 (original): A heat transfer element according to claim 196, wherein the heat transfer element comes in a segment or plate type.

Claim 198 (original): A heat transfer element according to claim 195, wherein the heat transfer element is the heat-dissipating element of a transistor in a power amplifier of a sound reproducing system.

Claim 199 (original): A heat transfer element according to claim 198, wherein the heat transfer element comes in a tube or plate type.

Claim 200 (original): A heat transfer element for use in heat dissipation in electric mechanical equipments which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;

- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5-1.0 %.

Claim 201 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of an exhaust stream condenser of a power plant boiler.

Claim 202 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a transformer radiator.

Claim 203 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a magnetic core of a transformer.

Claim 204 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a heat dissipating system of an electrical apparatus.

Claim 205 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a tri-phase asynchronous velocity adjustable motor.

Claim 206 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of an intensive magnetic oil cooler.

Claim 207 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of an X-ray machine cooler.

Claim 208 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a heat dissipating system of a motor radiator.

Claim 209 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a hydraulic oil radiator of a hydraulic system.

Claim 210 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a heat dissipating system of a transmission shaft system.

Claim 211 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a cooler for the pivot of machines.

Claim 212 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element in welding for part assembly.

Claim 213 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a cooling system of a pump.

Claim 214 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of an electrothermal reactor cooling system.

Claim 215 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a steam reactor cooling system.

Claim 216 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a high-current off-phase close bus air-cooler.

Claim 217 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a cooling system of heavy machine linkage parts.

Claim 218 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a radiator of the heavy machine braking system.

Claim 219 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a cooling system of a diesel engine.

Claim 220 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a bearing cooling system.

Claim 221 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a cooling system of a turbo charger.

Claim 222 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a cooling system of a gasoline engine.

Claim 223 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a cooler for car radiators.

Claim 224 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a heat absorber and dissipater of energy storage.

Claim 225 (currently amended): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a stirring type heat ~~dissipating~~ dissipating device.

Claim 226 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of a pressurized gas water cooler.

Claim 227 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heating element of a heat intake.

Claim 228 (original): A heat transfer element according to claim 200, wherein the heat transfer element is the heat-dissipating element of an amorphous material preparation apparatus.

Claim 229 (cancelled)

Claim 230 (currently amended): A heat transfer element according to claim ~~[[229]]~~ 115, wherein the heat transfer element is a furnace arc hanger of a boiler.

Claim 231 (cancelled)

Claim 232 (currently amended): A heat transfer element according to claim ~~[[231]]~~ 131, wherein the heat transfer element is the heat-dissipating element of an oil tank cooler.

Claim 233 (currently amended): A heat transfer element according to claim ~~[[231]]~~ 131, wherein the heat transfer element is the heat-dissipating element of a plate radiator.

Claim 234 (currently amended): A heat transfer element according to claim ~~[[231]]~~ 131, wherein the heat transfer element is the heat-dissipating element of a bulk cement cooler.

Claim 235 (cancelled)

Claim 236 (currently amended): A heat transfer element according to claim ~~[[235]]~~ 144, wherein the heat transfer element is the heat exchange element of a heat circulation system.

Claim 237 (currently amended): A heat transfer element according to claim ~~[[235]]~~ 144, wherein the heat transfer element is the heat exchange element of a heat transfer apparatus for keeping the room temperature constant.

Claim 238 (currently amended): A heat transfer element according to claim ~~[[235]]~~ 144, wherein the heat transfer element is the heat exchange element of a geothermal collection system.

Claim 239 (currently amended): A heat transfer element according to claim ~~[[235]]~~ 144, wherein the heat transfer element is the heat exchange element of agricultural plastic canopies.

Claim 240 (cancelled)

Claim 241 (currently amended): A heat transfer element according to claim ~~[[240]]~~ 176, wherein the heat transfer element is the heating or heat-dissipating element of an acupuncture instrument.

Claim 242 (cancelled)

Claim 243 (currently amended): A heat transfer element according to claim ~~[[242]]~~ 200, wherein the heat transfer element is the heat exchange element of a target furnace.

Claim 244 (currently amended): A heat transfer element according to claim ~~[[242]]~~ 200, wherein the heat transfer element is the heat exchange element of an industrial exhaust recycling apparatus.

Claim 245 (currently amended): A heat transfer element according to claim ~~[[242]]~~ 200, wherein the heat transfer element is the heat exchange element of a vibrating dust removing heat exchanger.

Claim 246 (original): A heat transfer element for use in heat exchange in a thermostatic equipment which is characterized in that it comprises a high heat transfer medium, wherein the high heat transfer medium is formed by dissolving the following compounds in water to produce a mixture, and drying the resulting mixture to produce said heat transfer medium product with said compounds in the following weight percentages:

- (1) Cobaltic Oxide (Co_2O_3), 0.5-1.0 %;
- (2) Boron Oxide (B_2O_3), 1.0-2.0 %;
- (3) Calcium Dichromate (CaCr_2O_7), 1.0-2.0 %;
- (4) Magnesium Dichromate ($\text{MgCr}_2\text{O}_7 \cdot 6\text{H}_2\text{O}$), 10.0-20.0 %;
- (5) Potassium Dichromate ($\text{K}_2\text{Cr}_2\text{O}_7$), 40.0-80.0 %;
- (6) Sodium Dichromate ($\text{Na}_2\text{Cr}_2\text{O}_7$), 10.0-20.0 %;
- (7) Beryllium Oxide (BeO), 0.05-0.10 %;
- (8) Titanium Diboride (TiB_2), 0.5-1.0 %;
- (9) Potassium Peroxide (K_2O_2), 0.05-0.10 %;
- (10) A selected metal or Ammonium Dichromate (MCr_2O_7), 5.0-10.0 %; where "M" is selected from the group consisting of potassium, sodium, silver, and ammonium;
- (11) Strontium Chromate (SrCrO_4), 0.5-1.0 %; and
- (12) Silver Dichromate ($\text{Ag}_2\text{Cr}_2\text{O}_7$), 0.5-1.0 %.

Claim 247 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heat exchange element of an artificial crystal cultivation thermostatic box.

Claim 248 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heat exchange element of a ventilation system.

Claim 249 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heat exchange element of an air cleaner.

Claim 250 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heat exchange element of an indoor air exchanger.

Claim 251 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heat exchange element of an air-conditioning system.

Claim 252 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heat exchange element of the ventilator of an air-conditioning system.

Claim 253 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heat exchange element of a thermostatic system.

Claim 254 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heat exchange element of a thermostatic controller of a fermentation container.

Claim 255 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heating element of thermostatic equipment.

Claim 256 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heating element of a thermostatic device for a biochemical reaction.

Claim 257 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heating element of a geothermal collection system.

Claim 258 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heating element of an urban heating system.

Claim 259 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heating element of a pavement snow-melting system.

Claim 260 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heating element of a thermostatic apparatus.

Claim 261 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heating element of a quartz formation thermostatic apparatus.

Claim 262 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heat exchange element of a thermostatic apparatus.

Claim 263 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heat exchange element of a satellite thermostatic apparatus.

Claim 264 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heat exchange element of a thermostatic apparatus.

Claim 265 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heat exchange element of an air conditioner.

Claim 266 (original): A heat transfer element according to claim 246, wherein the heat transfer element is the heat exchange element of an integrated power-saving air conditioner.

Claim 267 (cancelled)

Claim 268 (currently amended): A heat transfer element according to claim ~~[[267]]~~ 131, wherein the heat transfer element is the heat exchange element of a thermostatic apparatus for petroleum chemical equipments.

Claim 269 (currently amended): A heat transfer element according to claim ~~[[267]]~~ 131, wherein the heat transfer element is the heat exchange element of a thermostatic cracking furnace.

Claim 270 (cancelled)

Claim 271 (currently amended): A heat transfer element system according to claim ~~[[270]]~~ 144, wherein the system comprises the heat transfer element for heating of a plant heating system.

Claim 272 (currently amended): A heat transfer element system according to claim ~~[[270]]~~ 144, wherein the system comprises the heating element of the solar energy water heater in a plant heating system.

Claim 273 (currently amended): A heat transfer element system according to claim ~~[[270]]~~ 144, wherein the system comprises the heating element of the geothermal water heater in a plants heating system.

Claim 274 (currently amended): A heat transfer element system according to claim ~~[[270]]~~ 144, wherein the system comprises the heat-dissipating element of a plants heating system.

Claim 275 (currently amended): A heat transfer element system according to claim ~~[[270]]~~ 144, wherein the system comprises the heat-dissipating element of the air radiator in a plants heating system.

Claim 276 (currently amended): A heat transfer element system according to claim ~~[[270]]~~ 144,

wherein the system comprises the heat transfer element for heating of a fishery cultivation heating system.

Claim 277 (original): A heat transfer element system according to claim 276, wherein the system comprises the heating element of the solar energy water heater in a fishery cultivation heating system.

Claim 278 (original): A heat transfer element system according to claim 276, wherein the system comprises the heating element of the geothermal water heater in a fishery cultivation heating system.

Claim 279 (original): A heat transfer element system according to claim 276, wherein the system comprises the heating element of the pond heater in a fishery cultivation heating system.

Claim 280 (cancelled)

Claim 281 (currently amended): A heat transfer element system according to claim ~~[[280]]~~ 7, wherein the system comprises the heat exchange element of a dehydrating apparatus.

Claim 282 (cancelled)

Claim 283 (currently amended): A heat transfer element system according to claim ~~[[282]]~~ 13, wherein the system is the heat exchange element of a geothermal energy refrigerating system.

Claim 284 (new): A heat transfer element according to claim 2, wherein the heat transfer element is a heating element.

Claim 285 (new): A heat transfer element according to claim 2, wherein the heat transfer element is a heat-dissipating element.

Claim 286 (new): A heat transfer element according to claim 2, wherein the heat transfer element is a heat exchange element.

Claim 287 (new): A heat transfer element according to claim 3, wherein the heat transfer element is a heating element.

Claim 288 (new): A heat transfer element according to claim 3, wherein the heat transfer element is a heat-dissipating element.

Claim 289 (new): A heat transfer element according to claim 3, wherein the heat transfer element is a heat exchange element.